

Communication with S7-200 Smart





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# 1.General

This example introduces how to establish communication between Wecon VBOX and Siemens S7-200 SMART.

The connection diagrams of the two communication methods, serial port and network port, are as follows:



VBOX side: COM1 interface

PLC side: RS 485 (3 connects to 485+, 8 connects to 485-)



VBOX side: RJ45 Ethernet interface

PLC side: RJ45 Ethernet interface

# 2.Operation Steps

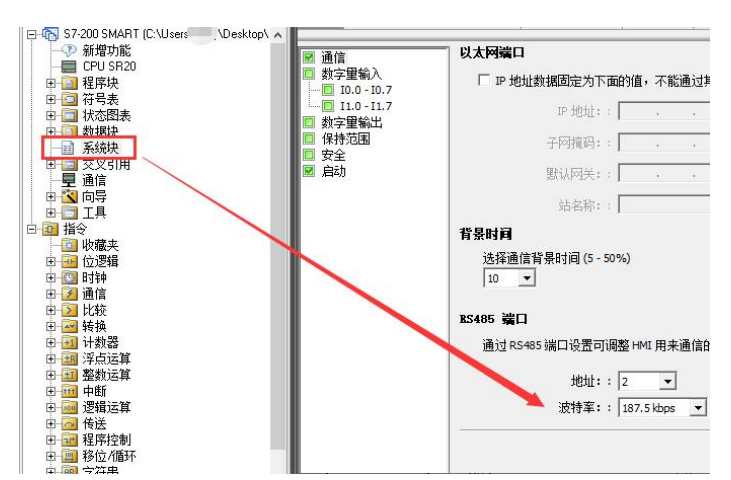
## 2.1 RS485 serial port communication

### 2.1.1 VBOX communication settings

Configuration>>Communication>>Add new port>>Set the communication parameter as below:

### 2.1.2 PLC communication settings

STEP 7-MicroWIN SMART:

Main>>system block>>RS485 port, change the baud rate to 187.5kbps

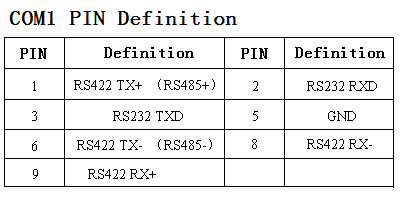
### 2.1.3 Establish connection

The VBOX uses the COM1 port, and the PLC uses the RS485 port

COM1 port pin 1 is connected to RS485 port pin 3

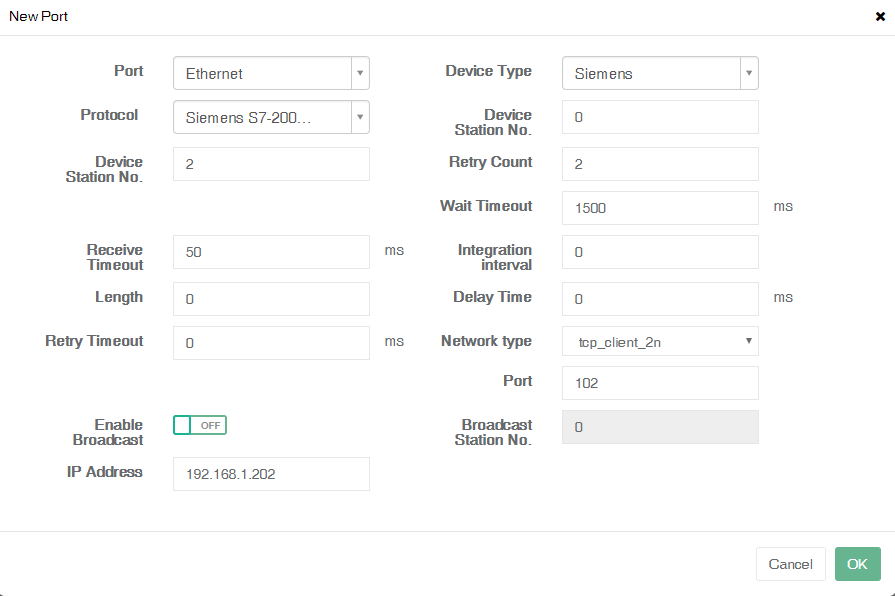
COM1 port pin 6 is connected to RS485 port pin 8

The pin connections are as follows:

H series VBOX COM1 Pin Definition

## 2.2 Ethernet port communication

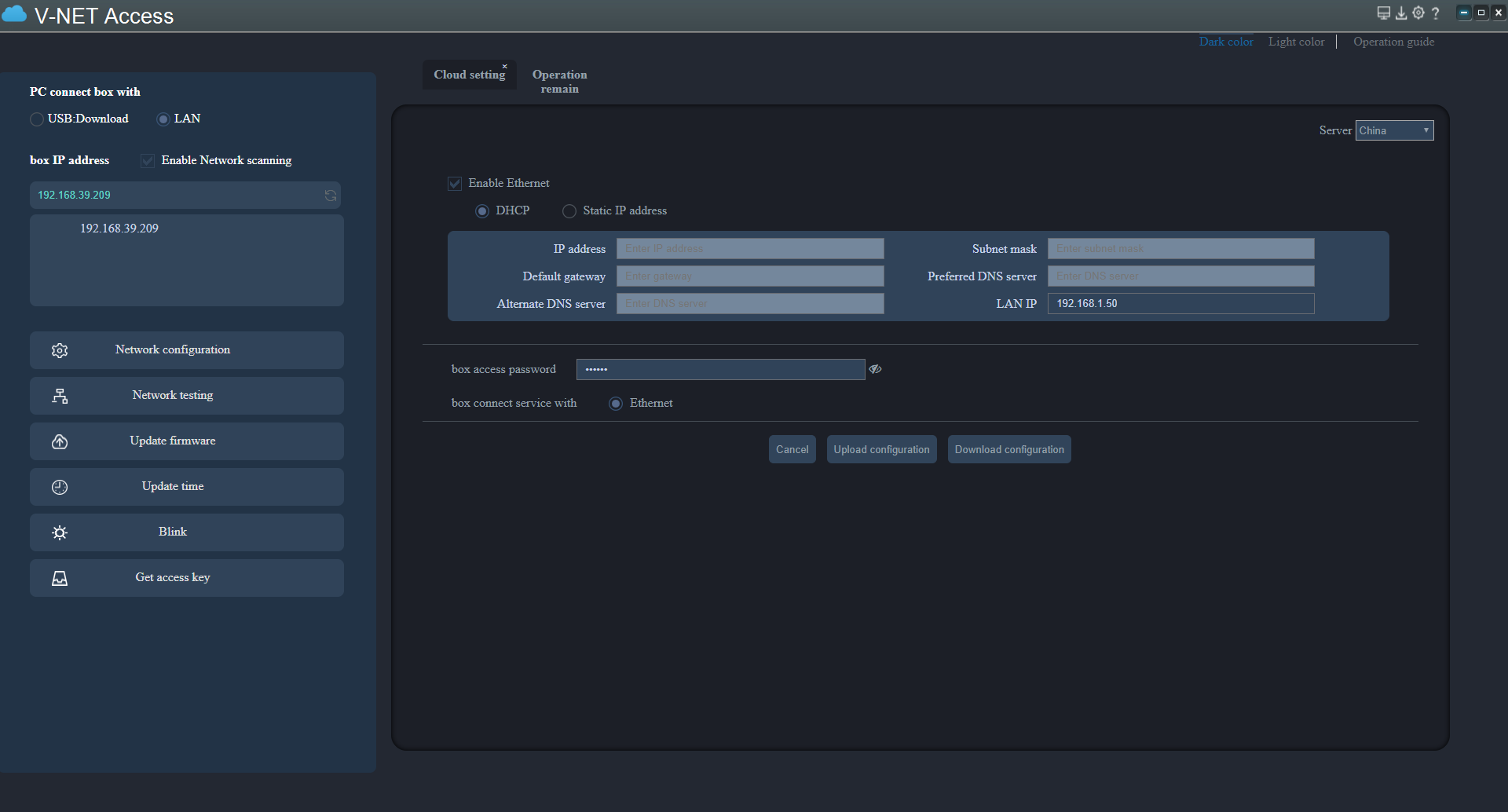
### 2.2.1 VBOX communication settings

Configuration>>Communication>>Add new port>>Set the communication parameter as below:

IP Address ”192.168.1.202” is PLC IP address, need to be the same network segment as VBOX.

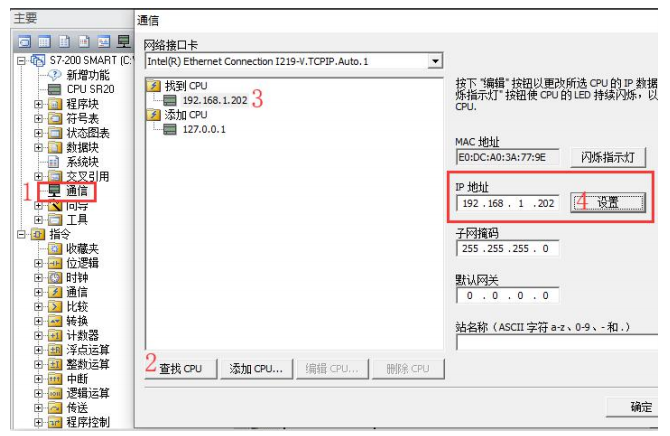
### 2.2.2 IP settings

VBOX: Networking configuration>>LAN IP set as”192.168.1.xx”(make sure there is no IP conflic)



STEP 7-MicroWIN SMART:

Main\_Communication\_Search CPU, find CPU (if you need to change IP, click edit, modify IP, click set), click OK

Note: The IP of the PLC must be consistent with the IP set on the HMI(communication>>TCP/IP parameters)

### 2.2.3 Establish connection

Use a ethernet cable to connect the VBOX and PLC on the same Local Area Network, or connect the VBOX to PLC directly with ethernet cable. Both methods can be connected.